



IN THE UNITED STATES PATENT  
AND TRADEMARK OFFICE

Applicant(s): Malakowski, et. al.

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Declaration of Dr. Michael Nogler M.D. made under Rule 132

I, Dr. Michael Nogler declare as follows:

1. That I am a surgeon specializing in orthopaedic surgery and my Curriculum Vitae outlining my education and specializations is attached as Exhibit A.
2. That I am currently a consulting surgeon for the Stryker Corporation, a related entity to the assignee of the present application.
3. That I am familiar with the use of surgical navigation systems and instruments in the total knee arthroplasty, total hip arthroplasty and I have used a number of different surgical navigation systems in the past including passive navigation tracking systems and a system that uses wireless hand pieces of the type as claimed in the present application. As noted in my Curriculum Vitae, I have lectured on the use of image guided technology (surgical navigation) for total knee arthroplasties, total hip arthroplasties, spine surgeries.
4. That I understand that the present patent application is claiming the use of wireless communication between the surgical navigation system and the individual instruments in combination with other elements of the currently pending claims

5. That I understand that the current application has been rejected because the invention as claimed is considered obvious in view of a patent that discloses a wired or tethered instrument communicating with a surgical navigation system.

6. That I believe that the use of wireless communication between an active smart instrument and a surgical navigation system has been recognized as a significant advance today and I believe it would not have been considered as obvious on January 27, 2000 for the reasons set forth below:

a. *The use of a wireless system simplifies the setup prior to a typical total joint arthroplasty;*

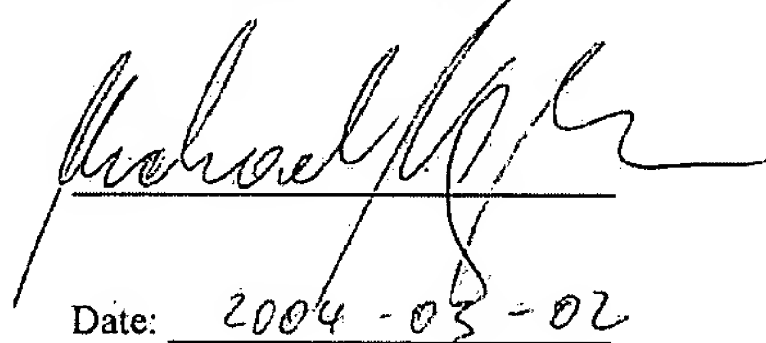
b. *In total joint surgery there are a large number of instruments and devices in the surgical field that require power cords, suction tubes and the like.*

c. *The use of a wireless hand piece that can be tracked by the surgical navigation system is much less cumbersome and provides a significantly greater range of motion to me in performing these surgical techniques allowing me to perform these tasks properly, in less time, and with lower fatigue. A wired hand piece has a wire that drags, can catch on other instruments and wires, and will actually pull against the direction I need to move the hand piece.*

d. *The use of a wireless hand piece minimizes issues relating to maintenance of the surgical field in a sterile state because there is no requirement to pass a portion of the cord to a technician to attach the hand piece to the surgical navigation computer.*

7. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001 and that such willful false statements may jeopardize the validity of the above referenced application or any patent issued thereon.

Michael Nogler, M.D. MA, MSc.



Date: 2004-03-02

# Curriculum Vitae

Michael Gerd Maria Nogler

Geb. Datum: 14.09.1964

ao. Univ.- Prof. (Associate Professor for Orthopaedic Surgery)

Medical Doctor

Master of Arts (political science)

Master of Advanced Studies (Hospital management)

Master of Science (Public Health)

## Ausbildung

- |               |   |
|---------------|---|
| 07. July 1988 | Received MA degree in political science. Thesis: The foreign policy of the Peoples republic of China and the third world. <i>Univ.- Prof. Dr. Zdenek Mlynar</i>   |
| WS 1988       | - „Teaching and Research Assistant“ at the University of New Orleans, Department of Political Science<br>- Coworker at the project: Foreign Policy of the Peoples Republic of China, bei <i>Prof. Larry Katzenstein</i> |
| 1989          | Grand from the Government of Thailand at the Chulalongkorn University in Bangkok: Impact of an export-orientated economic policy on the development of a domestic market.   |
| Nov. 1995     | MD degree   |
| Feb. 2000     | research project at the „Maurice E. Müller Institut für Biomechanik“, Bern, Switzerland: Initial stability of the ABG stem. ROBODOC vs. Manual implantation, <i>Prof. Lutz Nolte</i>                                    |
| Nov. 2001     | Promotion to Associate Professor of Orthopaedic surgery   |
| April 2002    | MAS degree  |
| April 2002    | MSc degree  |

## **Professional**

### **Medical training**

1996	Start training at the Dpt. of Orthopaedic Surgery, University of Innsbruck. Member of the CAOS Research Group
since 1996	Responsible for Hospital information systems at the office of the medical director of the hospital. Member of the data security board.
since 1997	Head of the CAOS Research Group
since 2000	Member of the IT commission of the Medical University of Innsbruck
Nov 2002	Board certification

### **Teaching**

1988	Teaching assistant at the University of New Orleans, College 4. year
1989 - 1992	Dpt. of political science, University of Innsbruck: „Introduction to Information Technology“
since 1997	Univ.- Klinik für Orthopädie: „Bedside Teaching“
since 1999	Univ.- Klinik für Orthopädie: „CAOS and Robotics“
2001	Robot – assisted hip revision in Osaka and Sapporo, Japan
since 2003	MIS-Hip arthroplasty

### **Areas of research**

- Computer assisted Orthopaedic surgery (CAOS) – Total Joint Arthroplasty
- Workplace security
- Minimally invasive hip arthroplasty

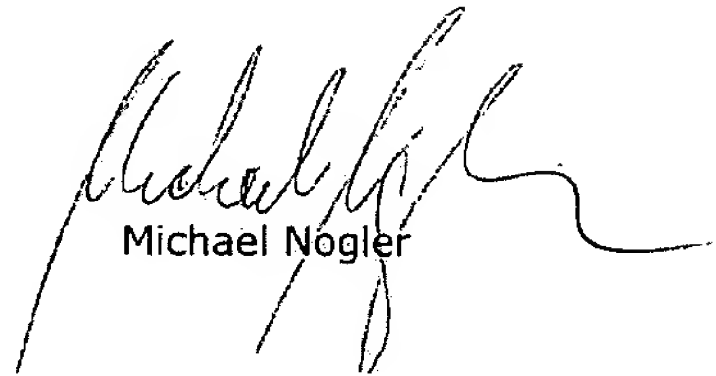
## **Prices**

1996	Posterprice „Österreichischen Gesellschaft für Hämatologie und Onkologie“
2001	Spine Society of Europe, Basic Science Award

## **Member of professional societies**

- Austrian Association of Orthopaedic Surgeon
- CAOS International

Innsbruck, 02.03.04



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ao Univ.- Prof. Mag. Dr. Michael Nogler MAS, MS  
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12 pages

From Jürgen Wagner

Received

MAR 17 2004

## List of publications

McCracken And Frank

### 1. Original papers

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1. Öfner, D.; Maier, H.; Riedmann, B.; Holzberger, P.; Nogler, M.; Tötsch, M.; Bánkfalvi, A.; Winde, G.; and Schmid, K.: Immunohistochemical detectable p53 and mdm-2 oncoprotein expression in colorectal adenocarcinoma - clinicopathology study of 109 consecutive cases demonstrating lack of long-term prognostic significance. *J. Clin Pathol Mol Pathol*, 48: M12-M16, 1995
2. Baubin, M.; Schirmer, M.; Nogler, M.; Semenitz, B.; Falk, M.; Kroesen, G.; Hortnagl, H.; and Gilly, H.: Rescuer's work capacity and duration of cardiopulmonary resuscitation. *Resuscitation*, 33(2): 135-9, 1996
3. Baubin, M.; Nogler, M.; Semenitz, B.; Falk, M.; Kroesen, G.; Hortnagl, H.; and Gilly, H.: Active compression-decompression cardiopulmonary resuscitation in standing position over the patient: pros and cons of a new method. *Resuscitation*, 34(1): 7-10, 1997
4. Wimmer, C.; Nogler, M.; and Frischhut, B.: Influence of antibiotics on infection in spinal surgery: a prospective study of 110 patients. *J Spinal Disord*, 11(6): 498-500, 1998
5. Nogler, M.; Wimmer, C.; Mayr, E.; and Öfner, D.: The efficacy of using search engines in procuring information about orthopaedic foot and ankle problems from the World Wide Web. *Foot Ankle Int*, 20(5): 322-5, 1999
6. Bach, C. M.; Nogler, M.; Wimmer, C.; Stoeckel, B.; and Ögon, M.: Fistula between a total hip arthroplasty and the rectum: a case report. *Clin Orthop*, 388: 143-6, 2001

7. **Bach, C. M.; Steingruber, I. E.; Peer, S.; Nogler, M.; Wimmer, C.; and Ogon, M.:** Radiographic assessment in total knee arthroplasty. *Clin Orthop*, (385): 144-50, 2001
8. **Nogler, M.; Krismer, M.; Haid, C.; Ogon, M.; Bach, C.; and Wimmer, C.:** Excessive heat generation during cutting of cement in the Robodoc hip-revision procedure. *Acta Orthop Scand*, 72(6): 595-9, 2001
9. **Nogler, M.; Krismer, M.; Waldenberger, P.; Rachbauer, F.; and Bach, C.:** Multiple previous surgeries, infection, and preoperative radiation: A cause for arterial rupture in closed reduction? *J Arthroplasty*, 16(8): 1075-1077, 2001
10. **Nogler, M.; Lass-Flörl, C.; Ogon, M.; Mayr, E.; Bach, C.; and Wimmer, C.:** Environmental and body contamination through aerosols produced by high-speed cutters in lumbar spine surgery. *Spine*, 26(19): 2156-9, 2001
11. **Nogler, M.; Lass-Flörl, C.; Wimmer, C.; Bach, C.; Kaufmann, C.; and Ogon, M.:** Aerosols produced by high-speed cutters in cervical spine surgery: extent of environmental contamination. *Eur Spine J*, 10(4): 274-7, 2001 EUROSPINE Basic Science Award!
12. **Nogler, M.; Maurer, H.; Wimmer, C.; Gegenhuber, C.; Bach, C.; and Krismer, M.:** Knee pain caused by a fiducial marker in the medial femoral condyle: a clinical and anatomic study of 20 cases. *Acta Orthop Scand*, 72(5): 477-80, 2001
13. **Nogler, M.; Wimmer, C.; Lass-Flörl, C.; Mayr, E.; Trobos, S.; and Gegenhuber, C.:** Contamination risk of the surgical team through ROBODOC's high-speed cutter. *Clin Orthop*, (387): 225-31, 2001
14. **Nogler, M.; Wimmer, C.; Mayr, E.; and Ofner, D.:** Orthopaedic information on the Internet. *J Bone Joint Surg Am*, 83-A(6): 951-2, 2001
15. **Steingruber, I. E.; Bach, C. M.; Wimmer, C.; Nogler, M.; and Buchberger, W.:** Multisegmental pneumatocysts of the lumbar spine mimic osteolytic lesions. *Eur Radiol*, 11(5): 845-8, 2001
16. **Wimmer, C.; Gluch, H.; Nogler, M.; and Walochnik, N.:** Treatment of idiopathic scoliosis with CD-Instrumentation: lumbar pedicle screws versus laminar hooks in 66 patients. *Acta Orthop Scand*, 72(6): 615-20, 2001
17. **Bach, C. M.; Nogler, M.; Steingruber, I. E.; Ogon, M.; Wimmer, C.; Gobel, G.; and Krismer, M.:** Scoring systems in total knee arthroplasty. *Clin Orthop*, (399): 184-96, 2002



18. **Bach, C. M.; Steingruber, I. E.; Ogon, M.; Maurer, H.; Nogler, M.; and Wimmer, C.:** Intrapelvic complications after total hip arthroplasty failure. *Am J Surg*, 183(1): 75-9, 2002
19. **Bach, C. M.; Sturmer, R.; Nogler, M.; Wimmer, C.; Biedermann, R.; and Krismer, M.:** Total knee arthroplasty infection: significance of delayed aspiration. *J Arthroplasty*, 17(5): 615-8, 2002
20. **Bach, C. M.; Wachter, R.; Stockl, B.; Gobel, G.; Nogler, M.; and Frischhut, B.:** Significance of talar distortion for ankle mobility in idiopathic clubfoot. *Clin Orthop*, (398): 196-202, 2002
21. **Bach, C. M.; Winter, P.; Nogler, M.; Gobel, G.; Wimmer, C.; and Ogon, M.:** No functional impairment after Robodoc total hip arthroplasty: gait analysis in 25 patients. *Acta Orthop Scand*, 73(4): 386-91, 2002
22. **Nogler, M.; Fischer, M.; Freund, M.; Mayr, E.; Bach, C.; and Wimmer, C.:** Retrograde injection of a nutrient vein with cement in cemented total hip arthroplasty. *J Arthroplasty*, 17(4): 505-6, 2002
23. **Ogon, M.; Giesinger, K.; Behensky, H.; Wimmer, C.; Nogler, M.; Bach, C. M.; and Krismer, M.:** Interobserver and Intraobserver Reliability of Lenke's New Scoliosis Classification System. *Spine*, 27(8): 858-62, 2002
24. **Ogon, M.; Hartig, F.; Bach, C.; Nogler, M.; Steingruber, I.; and Biedermann, R.:** Patella resurfacing: no benefit for the long-term outcome of total knee arthroplastyA 10- to 16.3-year follow-up. *Arch Orthop Trauma Surg*, 122(4): 229-34, 2002
25. **Rachbauer, F.; Nogler, M.; Krismer, M.; and Moritz, M.:** Intraoperative migration of the trial femoral head into the pelvis during total hip arthroplasty: prevention and retrieval. *J Bone Joint Surg Am*, 84-A(5): 881-2; discussion 882, 2002
26. **Mayr, E.; Kessler, O.; Prassl, A.; Rachbauer, F.; Krismer, M.; and Nogler, M.:** Variance of pelvic position in supine and standing position. *Clin Orthop*, 2003 Accepted with minor revisions!
27. **Mayr, E.; Lass-Flörl, C.; Rachbauer, F.; Walochnik, N.; Bach, C.; and Nogler, M.:** Extension of an aerosol cloud produced by an ultrasound cement removal system. *Hip International*, 2003
28. **Nogler, M.; Lass-Flörl, C.; Wimmer, C.; Mayr, E.; Bach, C.; and Ogon, M.:** Contamination during removal of cement in revision hip

arthroplasty. A cadaver study using ultrasound and high-speed cutters. *J Bone Joint Surg Br*, 85(3): 436-9, 2003

29. **Nogler, M.; Polikeit, A.; Wimmer, C.; Brückner, A.; Ferguson, S.; and Krismer, M.:** Primary stability of a ROBODOC ® implanted anatomical stem versus manual Implantation. *Clin Biomechanic*, 2003 in print!

30. **Prassl, A.; Krismer, M.; Mayr, E.; Kessler, O.; Rachbauer, F.; and Nogler, M.:** Malformations of the acetabular fossa as a cause of intrapelvic injury in total hip arthroplasty - a report of two cases. *J Arthroplasty*, 2003 Accepted with minor revisions!

31. **Rachbauer, F.; Sztankay, A.; Kreczy, A.; Sununu, T.; Bach, C.; Nogler, M.; Krismer, M.; Eichberger, P.; Schiestl, B.; and Lukas, P.:** High-Dose-Rate Intraoperative Brachytherapy (IOHDR) Using Flap Technique in the Treatment of Soft Tissue Sarcomas. *Strahlenther Onkol*, 179(7): 480-5, 2003

32. **Mayr, E.; Moctezuma, J.; and Nogler, M.:** Validity of the Determination of the Acetabular Orientation with a 3D Digitizer. *J Arthroplasty*, 2004 writing!

33. **Nogler, M.; Kaufmann, C.; Ogon, M.; and Krismer, M.:** Revision of cemented THA with the ROBODOC System. *Acta Orthop Scand*, 2004 in preparation!

34. **Nogler, M.; Kessler, O.; Prassl, A.; Donnelly, W.; Streicher, R.; Sledge, J.; and Martin Krismer, M.:** Reduction in Variability of Acetabular Cup Positioning Using an Imageless Navigation System: A Cadaver Study. *Clin Orthop*, 2004 Accepted with minor revisions!

35. **Nogler, M.; Mayr, E.; Prassl, A.; Rachbauer, F.; and Krismer, M.:** Navigated versus non-navigated minimallyinvasive THA through the direct anterior single incision approach. *Clin Orthop*, 2004 in preparation!

36. **Prassl, A.; Krismer, M.; Mayr, E.; Kessler, O.; Rachbauer, F.; and Nogler, M.:** Malformation of the acetabular fossa as a cause of intrapelvic injury in total hip arthroplasty: a report of 2 cases. *J Arthroplasty*, 19(1): 129-31, 2004

37. **Rachbauer, F.; Nogler, M.; and Krismer, M.:** A prospective randomized trial MIS-THA through a single incision direct anterior approach versus the anterolateral transgluteal approach - early outcome. *J Arthroplasty*, 2004 in progress!

38. **Rachbauer, F.; Nogler, M.; and Krismer, M.:** The single incision direct anterior approach to the hip. *J Arthroplasty*, 2004 submitted!

39. **Stoeckl, B.; Kessler, O.; Krismer, M.; Mangat, J.; Moctezuma, J.; and Nogler, M.:** Variation of entry point selection for the transepicondylar axis and it's quantitative effects. *J Arthroplasty*, 2004 submitted!

## 2. Abstracts

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1. Öfner D, Schnetzer A, **Nogler M**, Weiss H, Maier H, Tötsch M, Mikuz G, Schmid KW (1996): Standardized AgNOR in Ki-67 negative and positive benign and mligne cells. *European Journal of Histochemistry* 40
2. Riedmann B, Maier H, Weiss H, Spechtenhauser B, Schwab G, Tötsch M, **Nogler M**, Schmid KW, Öfner D (1996) Silver stained nucleolar organizer regions associated protein analysis: a major prognostic factor in gastric carcinoma. *Gastroenterologie*
3. **Nogler M**, Andreas A, Weiss H, Maier H, Tötsch M, Mikuz G, Schmid KW, Öfner D (1996): AgNOR analysis in Ki-67 negative and positive Benign and malignant cells. Fourth International Workshop on Applications of AgNOR in Pathology, Taormina
4. **Nogler M** (1997): The problems of cutting through the major trochanter in the ROBODOC ® procedure. Robodoc Usermeeting, Vienna
5. Wimmer C, Krismer M, Gluch H, **Nogler M**, Walochnik N (1998): Treatment of idiopathic scoliosis with CD-instrumentation. Lumbar pedicle srews versus laminar hooks. in JBJS Supplement 80-B, Eurospine, Innsbruck
6. **Nogler M**, Wimmer C, Mayr E (1998): Die Verfügbarkeit von Informationen über Gelenksendoprothetik Im world wide web. in Z. Orthop 136, Deutscher Orthopädenkongreß, Wiesbaden
7. Franzreb M, Wimmer C, **Nogler M** (1998): Widersprüchliche Ergebnisse nach Cerclage Fibreaux bei Hallux valgus . in Z. Orthop 136, Deutscher Orthopädenkongreß, Wiesbaden
8. Wimmer C, **Nogler M**, Mayr E, Franzreb M (1998): The chevron

- osteotomy with lateral soft-tissue release for the treatment of the hallux valgus deformity. Foot The Congress, Köln
9. **Nogler M**, Wimmer C, Mayr E, Stöckl B, Franzreb M (1998): Is the world wide web useful to retrieve information relevant in foot and ankle orthopedics? Foot The Congress, Köln
  10. **Nogler M**, Wimmer C, Lass-Flörl C, Mayr E, Ogon M, Krismer M (1998): Nachweis der Aerosolwolke bei Verwendung der high-speed Fräse des ROBODOC® - Systems. Ein Infektionsrisiko für das Operationsteam? Wissenschaftliche Sitzung ÖGO, Wien
  11. Wimmer C, Maurer H, **Nogler M**, Hald C (1998): Anatomische Betrachtungen zur perkutanen interkorporellen Fusion an der Lendenwirbelsäule. Jahrestagung der Griechisch-Österreichischen Gesellschaft für Orthopädie, Athen
  12. Ogon M, **Nogler M** (1998): Die externe Kommunikation der Univ. Klinik für Orthopädie. Eine Befragung von 400 niedergelassenen Ärzten. Symposium: Der Patient in der Informationsgesellschaft, Innsbruck
  13. **Nogler M**, Ogon M, Fleisch G, Wimmer C (1998): Kosten Nutzen und rechtliche Aspekte des Einsatzes neuer Kommunikationsmedien zur Arztbriefübermittlung am Beispiel der Univ. Klinik für Orthopädie Innsbruck. Symposium: Der Patient in der Informationsgesellschaft, Innsbruck
  14. Bach C, Wimmer C, **Nogler M**, Frischhut B, Krismer M (1999): Behandlungsstrategien bei Hüfttotalendoprothesen mit Pfannenlagerdestruktion. Ortho Mitteilungen 2:9. Jahrestagung der Österreichischen Gesellschaft für Orthopädie und Orthopädische Chirurgie, Gmunden
  15. Bach C, Wimmer C, **Nogler M**, Frischhut B, Krismer M (1999): Infiziertes pseudoaneurysma durch eine intrapelvin dislozierte Pfanne nach Hüfttotalendoprothesenversorgung. Ortho Mitteilungen 2:9. Jahrestagung der Österreichischen Gesellschaft für Orthopädie und Orthopädische Chirurgie, Gmunden
  16. Ogon M, Hartig F, **Nogler M**, Bach C, Steingruber I (1999): Bringt der Patellaersatz im Langzeitverlauf Vorteile? Ortho Mitteilungen 2:9. Jahrestagung der Österreichischen Gesellschaft für Orthopädie und Orthopädische Chirurgie, Gmunden
  17. Wimmer C, Gegenhuber C, Bach C, **Nogler M** (1999): Die Fusionsrate der Posterolateralen Spondylodese nach Wiltse. Ortho Mitteilungen 2:9. Jahrestagung der Österreichischen Gesellschaft für Orthopädie und Orthopädische Chirurgie, Gmunden
  18. **Nogler M**, Wimmer C, Lass-Flörl C, Mayr E, Stöckl B (1999): Detection of the aerosol cloud produced by ROBODOC'S ® high-

- speed bone burr. A contamination risk for the surgical team. in JBJS 81-B Supplement, EFORT Brüssel
19. Stöckl B, Wimmer C, Krismer M, Landauer F, **Nogler M** (1999): Two year migration results of the Duraloc cup. in JBJS 81-B Supplement, EFORT Brüssel
  20. Stöckl B, **Nogler M**, Krismer M, Biedermann R, Wimmer C (1999): Lumbar pedicle screws versus laminar hooks in the treatment of idiopathic scoliosis with CD-instrumentation. in JBJS 81-B Supplement, EFORT Brüssel
  21. Bach C, Wimmer C, Freund M, Steingruber I, **Nogler M** (1999): Two degenerative pneumocysts of the lumbar spine in one patient. A case Report. JBJS 81-B Supplement, EFORT Brüssel
  22. **Nogler M**, Wimmer C, Mayr E, Landauer F, Stöckl B (1999): Chevron osteotomy with lateral soft tissue release for the treatment of hallux valgus deformity. in JBJS 81-B Supplement, EFORT Brüssel
  23. **Nogler M**, Wimmer C, Lass-Flörl C, Mayr E, Bach C, Krismer M (1999): Is there a contamination risk for the surgical team through ROBODOC'S high-speed bone cutter? 4Th CAOS Symposium, Davos
  24. Ogon M, Riedl-Huter C, **Nogler M**, Krismer M, Spratt KF, Wimmer C (1999): The value of spine radiographs in predicting low back pain under high performance training. 59. Jahrestagung der Schweizerischen Gesellschaft für Orthopädie,
  25. Bach C, **Nogler M**, Wimmer C, Frischhut M, Krismer M (1999): Treatment of severe total hip arthroplasty loosening. HIP 99-Hip surgery developments and future prospects, Toulouse
  26. Bach C, Wimmer C, **Nogler M**, Steingruber I (1999): Hematuria secondary to transpelvic dislocation of total hip arthroplasty - a case report. HIP 99-Hip surgery developments and future prospects, Toulouse
  27. Wimmer C, Stöckl B, **Nogler M**, Bach CM (2000): Conservative treatment of tuberculous spondylitis. Euro Spine J 9:360-1
  28. **Nogler M**, Krismer M, Waldenberger P, Rachbauer F, Bach C, Ogon M (2000): Rupture of the arteria profunda femoris during closes reduction in a dislocated hip-arthroplasty. in JBJS B Supplement, 4th Domestic Meeting, European Hip Society, Bristol, UK
  29. **Nogler M**, Wimmer C, Lass-Flörl C, Mayr E, Stöckl B, Krismer M (2000): Detection of the aerosol cloud produced by ROBODOC'S high speed bone burr: A contamination risk for the surgical team. in JBJS B Supplement, 4th Domestic Meeting, European Hip Society, Bristol, UK

30. **Nogler M**, Krismer M, Maurer H, Wimmer C, Gegenhuber C, Bach C (2000): The risk of nerve injury through ROBODOC's distal pin in the medial femoral condyle. in JBJS B Supplement, 4th Domestic Meeting, European Hip Society, Bristol, UK
31. Bach C, Trobos S, **Nogler M**, Wimmer C, Stöckl B (2000): Total hip arthroplasty infection following pneumonia. in JBJS B Supplement, 4th Domestic Meeting, European Hip Society, Bristol, UK
32. Krismer M, **Nogler M**, Kaufmann C, Ogon M (2000): Revision of femoral cement removal by robot vs. Manual procedure. in JBJS B Supplement, 4th Domestic Meeting, European Hip Society, Bristol, UK
33. Bach C, Wimmer C, **Nogler M**, Trobos S, Steingruber I, Stöckl B (2000): Prevotella loecheii infection of a total hip arthroplasty. in JBJS B Supplement, 4th Domestic Meeting, European Hip Society, Bristol, UK
34. Bach C, **Nogler M**, Winter P, Wimmer C, Fischer M, Krismer M (2000): Gluteal function after ROBODOC Total hip arthroplasty. In JBJS B Supplement, 4th Domestic Meeting, European Hip Society, Bristol, UK
35. Bach C, Steingruber I, Wimmer C, **Nogler M**, Stöckl B, Krismer M (2000): Intapelvic complications after total hip replacement - A meta analysis. In JBJS B Supplement, 4th Domestic Meeting, European Hip Society, Bristol, UK
36. **Nogler M**, Krismer M, Haid C, Wimmer C, Ogon M, Khalifa K, Shimbles S (2000): Temperature measurement during cutting of cement in the ROBODOC hip-revision procedure. in JBJS B Supplement, 4th Domestic Meeting, European Hip Society, Bristol, UK
37. Wimmer C, Krismer M, Bach CM, **Nogler M** (2000): Autologer versus homologer Knochenspan bei der ventralen interkorporellen lumbalen Fusion. 8 Wissenschaftliche Tagung der Österreichischen Schmerzgesellschaft, Bregenz
38. **Nogler M**, Krismer M, Wimmer C, Ogon M, Khalifa K, Shimbles S (2000): Temperature measurement during the cutting of cement in the ROBODOC ® hip revision procedure. 5th International Symposium on CAOS, Davos
39. **Nogler M**, Krismer M, Maurer H, Wimmer C, Gegenhuber C, Bach C (2000): The risk of nerve injury through ROBODOC'S ® distal pin in the medial femoral condyle. And anatomic study of 20 cases. 5th International Symposium on CAOS, Davos
40. Krismer M, Kaufmann C, **Nogler M**, Ogon M (2000): Bone cement removal during revision arthroplasty. Robot versus manual

procedure. 5th International Symposium on CAOS, Davos

41. Bach C, **Nogler M**, Winter P, Wimmer C, Fischer M, Krismer M (2000): Gluteal Function after ROBODOC Total Hip Arthroplasty. 9th Orthopaedic Summer School, Helsinki
42. Bach C, Steingruber I, **Nogler M**, Ogon M, Wimmer C, Krismer M (2001): Assessment of Rating Systems in Total Knee Arthroplasty. JBJS B Supplement, EFORT, Rhodos
43. Wimmer C, Stöckl B, Bach CM, **Nogler M**, Ogon M (2001): Non-operative treatment of tuberculous spondylitis. JBJS B Supplement, EFORT, Rhodos
44. **Nogler M**, Krismer M, Wimmer C, Stöckl B, Ogon M, Haid C (2001): Temperature measurements during cutting of cement in the ROBODOC® hip-revision procedure. JBJS B Supplement, EFORT, Rhodos
45. Steingruber I, Bach C, Wimmer C, **Nogler M**, Buchberger W (2001): Pneumocysts in the lumbar spine mimic osteolytic lesions. JBJS B Supplement, EFORT, Rhodos
46. **Nogler M**, Krismer M, Wimmer C, Stöckl M, Ogon M, Bach C (2001): The Impact of registration method and bone motion on the precision of the ROBODOC® system. JBJS B Supplement, EFORT, Rhodos
47. Bach C, Steingruber I, Wimmer C, **Nogler M**, Behensky H, Ogon M (2001): Assessment of radiographic outcome in total knee arthroplasty. JBJS B Supplement, EFORT, Rhodos
48. Stoeckl B, Biedermann R, Auchenthaler T, Bach C, Sununu T, **Nogler M** (2001): Ante- and retroversion measurements of cups by EBRA. JBJS B Supplement, EFORT, Rhodos
49. Winter P, Bach C, **Nogler M**, Fischer M, Wimmer C, Ogon M (2001): Dynamic Pelvic and Hip Function after Robodoc Total Hip Arthroplasty. JBJS B Supplement, EFORT, Rhodos
50. Bach C, Steingruber I, **Nogler M**, Ogon M, Wimmer C, Behensky H, Krismer M (2001): Assessment of rating system in total knee arthroplasty. JBJS B Supplement, EFORT, Rhodos
51. Stoeckl B, Bach C, **Nogler M**, Landauer F, Biedermann R, Krismer M (2001): Migration of the Duraloc Cup at 4 years. JBJS B Supplement, EFORT, Rhodos
52. Mayr E, **Nogler M**, Krismer M (2002): Variance in pelvic Position during X-ray taking. Domestic Meeting European Hip Society, Baveno, Italy 05.06.2002.
53. **Nogler M**, Mayr E, Ogon M, Krismer M, (2002): Heat generation

during cement removal in revision Total hip replacement - a comparison of three methods.. Domestic Meeting European Hip Society, Baveno, Italy 06.06.2002.

54. **Nogler M**, Schauss S, Kessler O, Prassl A, Krismer, M (2003): Kombinierte Pfannen- und Schaftnavigation in der Hüftendoprothetik mit dem Stryker Navigationssystem. Ergebnisse einer Kadaverstudie. Biomechanik Tagung, Universität München. München 26.02.2003
55. **Nogler M**, Kessler O, Prassl A, Donnelly W, Streicher R, Krismer M (2003): Reduction in variability of the cup position in Total Hip Arthroplasty through the Stryker hip navigation system: A cadaver study. CAOS International 18.06.2003, Marbella, Spain
56. **Nogler M**, Krismer M (2003): Navigated minimal invasive THA with the Stryker hip navigation system: Video presentation. CAOS International 18.06.2003, Marbella, Spain
57. Prassl A, **Nogler M**, Mayr E, Krismer M (2003): Positionierungsgenauigkeit der Pfanne mit einem nicht bild-basierten Navigationssystem im Vergleich zur konventionellen Implantation: Eine Kadaverstudie. ÖGO, Graz 21.06.2003
58. Mayr E, **Nogler M**, Krismer M (2003): Varianz der Beckenlage in Rückenlage und Im Stehen. Graz 20.06.2003
59. Schauss S, **Nogler M**, Krismer M (2003): Zemententfernung mit dem ROBODOC System. ÖGO, Graz 20.06.2003

### 3. Posters

---

1. **Nogler M**, Riedmann B, Maier H, Tötsch M, Mikuz M, Schmid KW, Öfner D (1996): Prognostische Bedeutung des immunhistochemischen Nachweises von p53, mdm-2 und bcl-2 onkoprotein beim operierten kolorektalen Karzinom. Jahrestagung der Österreichischen Gesellschaft für Hämatologie und Onkologie, Graz **Posterpreis**
2. Fuchs H, **Nogler M**, Dünser M, Ramoni A, Eberl T, Heinrich S, Langer D, Schmid KW, Öfner D (1996): Standardisierte Analyse der agyrophilen Nukleus Organisator Regionen assoziierten Proteine (AGNORS): Ein unabhängiger Prognoseparameter beim Mammakarzinom. Österreichischer Chirurgen Kongreß
3. Wimmer C, Gluch H, Ogon M, **Nogler M**, Franzreb M (1998): Predisposing factors for infection in spine surgery. A survey of 850 spinal procedures. Eurospine, Innsbruck
4. **Nogler M**, Wimmer C, Mayr E (1998): Die Verfügbarkeit von



Informationen über Gelenksendoprothetik im Internet. Jahrestagung der Griechisch-Österreichischen Gesellschaft für Orthopädie, Athen

5. **Nogler M**, Krismer M, Wimmer C, Bach C, Shimbles S, Kahlifa K (2001): The impact of registration method and bone motion on the precision of the ROBODOC system. 1st Annual Meeting: International Society of Computer Assisted Orthopaedic Surgery CAOS International, Davos, Switzerland 7. – 10. 2. 2001
6. Steingruber I, Bach C, Wimmer C, **Nogler M**, Cermak B, Buchberger W (2001): Uncommon osteolytic lesions of the lumbar spine. EFORT, Rhodos

#### 4. Invited speeches

---

1. **Nogler M** (1991): Kammern in Österreich - Notwendigkeit oder Luxus. Tiroler Ärztekammer
2. **Nogler M**, Baubin M (1996): EDV-Zukunft - welches System für die prähospitalen Dokumentation? Innsbrucker Notfallkongreß, Journal für Anästhesie und Intensivbehandlung IX. Innsbrucker Notfallsymposium, Innsbruck
3. **Nogler M** (2000): Computer aided surgery, More than a tool? The Current State of Arthroplasty in Europe. A comprehensive review. Zürich
4. **Nogler M** (2001): ROBODOC Revision THR. American Academy of Orthopedic Surgeons, Annual Meeting 2001, Special interest group, San Francisco
5. **Nogler M** (2001): ROBODOC Revision THR. Japan Osaka – ROBODOC Training 2001, Osaka 14.08.2001
6. **Nogler M** (2001): ROBODOC Revision THR. Japan Sapporo – ROBODOC Training 2001, Osaka 16.08.2001
7. **Nogler M** (2001): ROBODOC Revision THR. CAOS Spain 2001, Marbella
8. **Nogler M**, Krismer M (2002): Robotic Cement removal. AFOR Meeting, Pontresina, Switzerland 01.03.2002
9. **Nogler M** (2002): Robotic Cement removal. Smith and Nephew International Hip Meeting, Vienna, Austria, 11.05.2002
10. **Nogler M** (2003): Hip Navigation. AFOR Meeting, Pontresina, Switzerland 25. 26. 27. 02.2003
11. **Nogler M** (2004): MIS – Hüftimplantation durch den direkten anterioren Zugang. AFOR Meeting, St. Anton, Switzerland 04 02.2004

## 5. Books

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1. Nogler M, Krismer M. Zemententfernung in der Femurschaftrevision mit dem ROBODOC-System. In W. Konnermann, R. Haaker: Navigation und Robotic in der Gelenk- und Wirbelsäulenchirurgie. Springer 2003, Berlin.
2. Nogler M, Krismer M., Rachbauer F, Sledge J.: Minimal Invasive Hips Surgery and Navigation In W. Konnermann, R. Haaker: Navigation and Robotic in Joint- and Spinesurgery. Springer 2003, Berlin.
3. Nogler M, Krismer M.: Cement removal with the ROBODOC - System In W. Konnermann, R. Haaker: Navigation and Robotic in Joint- and Spinesurgery. Springer 2003, Berlin.
4. Nogler M., Rachbauer F., Schaffer J.: The Direct Anterior Approach Using Image-Free Navigation. In Hozack, Krismer, Nogler et al.: Minimal Invasive Total Joint Arthroplasty. Springer 2004, Berlin.
5. Nogler M., Moctezuma J.: What Instruments are needed for MIS - Total Joint Arthroplasty. In Hozack, Krismer, Nogler et al.: Minimal Invasive Total Joint Arthroplasty. Springer 2004, Berlin.